

Sequence Listing

```
<110> Kumar Verma, Sunil
      Singh, Lalji
<120> UNIVERSAL PRIMERS FOR WILDLIFE IDENTIFICATION
<130> U-013365-9
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<141> 2001-03-29
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      of animal species
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23
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tatgcaaata ggaagtatca ttc
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<210> 5
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<213> adil.flesh
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      origin using primers mcb398 and mcb869
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                                                                          120
acaggateta acaacecete aggaatagta teegacteag acaaaattee attecaceca
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tactacacaa tcaaagatat cctgggcctt ctagtactaa tcctagcact catactactc
                                                                          240
gtcctattct caccagacct gttaggagac cccgataact acatccctgc caaccctcta
                                                                          300
aatacccctc cccatatcaa gcctgaat
                                                                          328
<210> 6
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<212> DNA
<213> bhz25t
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      animal number 1 using primers mcb398 and mcb869
<400> 6
tgaatctgag gaggettete agtagacaaa gecaecetga caegattett tgeetteeae
                                                                          60
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                                                                          120
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acaggateta acaaeceete aggaatagta tetgaeteag acaaaateee gtteeaecea

tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc

gtcctattct caccagacct attaggggac cccgataact acatccccgc caaccctcta

aacacccctc cccatatcaa gcgcgaat

1

180

240

300

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<210> 7
<211> 328
<212> DNA
<213> bhz26t
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     animal number 2 using primers mcb398 and mcb869
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                                                                         120
acaggateta acaacceete aggaatagta tetgacteag acaaaateee gttecaccea
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
                                                                         300
gtoctattot caccagacot attaggggac cocgataact acateccege caacceteta
aacacccctc cccatatcaa gcgcgaat
                                                                         328
<210> 8
<211> 328
<212> DNA
<213> bhz30t
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      animal number 3 using primers mcb398 and mcb869
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                                                                         120
acaggateta acaacecete aggaatagta tetgaeteag acaaaateee gttecaceca
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
                                                                         300
gtectattet caccagacet attaggggae ceegataact acateceege caacceteta
aacacccctc cccatatcaa gcgcgaat
                                                                         328
<210> 9
<211> 328
<212> DNA
<213> bhz45t
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<223> DNA sequence generated from the known tiger (Panthera tigris tigris)
     number 4 using primers mcb398 and mcb869
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ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
                                                                         120
acaggateta acaacecete aggaatagta tetgaeteag acaaaateee qttecaceca
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
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gtoctattot caccagacot attaggggac cocgataact acateccege caacceteta
                                                                         300
aacacccctc cccatatcaa gcgcgaat
                                                                         328
<210> 10
<211> 328
<212> DNA
<213> bhz56t
<220>
<223> DNA sequence generated from the known tiger (Panthera tigris tigris)
   animal number 5 using primers mcb398 and mcb869
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                                                                          60
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
                                                                         120
acaggateta acaacecete aggaatagta tetgacteag acaaaateee gttecaceca
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
gtcctattct caccagacct attaggggac cccgataact acatccccgc caaccctcta
                                                                         300
aacacccctc cccatatcaa gcgcgaat
                                                                         328
<210> 11
<211> 328
<212> DNA
<213> bhz63t
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      animal number 6 using primers mcb398 and mcb869
<400> 11
tgaatctgag gaggettete agtagacaaa gecaeeetga caegattett tgeetteeae
                                                                          60
tteateette catttateat eteageeeta geageagtee accteetatt eeteeatgag
                                                                         120
acaggateta acaacecete aggaatagta tetgaeteag acaaaateee gttecaecea
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
gtcctattct caccagacct attaggggac cccgataact acatccccgc caaccctcta
                                                                         300
aacacccctc cccatatcaa gcgcgaat
                                                                         328
<210> 12
<211> 328
<212> DNA
<213> bhz20wt
<220>
<223> DNA sequence generated from the known white tiger (Panthera tigris
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                                                                          60
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120
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
acaggateta acaacceete aggaatagta tetgacteag acaaaateee gttecaccea
                                                                         180
                                                                         240
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
qtcctattct caccaqacct attaqqqqac cccgataact acatccccgc caaccctcta
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                                                                         328
aacacccctc cccatatcaa gcgcgaat
<210> 13
<211> 328
<212> DNA
<213> bhz22wt
<220>
<223> DNA sequence generated from the known white tiger (Panthera tigris
      tigris) animal number 2 using primers mcb398 and mcb869
<400> 13
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ttcatcette catitateat etcageecta geageagtee acctectatt cetecatgag
                                                                         120
acaggateta acaacecete aggaatagta tetgaeteag acaaaateee gtteeaceca
                                                                         180
                                                                         240
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
gtoctattot caccagacot attaggggac cocgataact acateceege caacceteta
                                                                         300
aacacccctc cccatatcaa gcgcgaat
                                                                         328
<210> 14
<211> 328
<212> DNA
<213> bhz23wt
<220>
<223> DNA sequence generated from the known white tiger (Panthera tigris
      tigris) animal number 3 using primers mcb398 and mcb869
<400> 14
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                                                                          60
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
                                                                         120
acaggateta acaacceete aggaatagta tetgaeteag acaaaateee gtteeaccea
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
                                                                         300
gtoctattot caccagacot attaggggac cocgataact acatococgo caaccotota
aacacccctc cccatatcaa gcgcgaat
                                                                         328
<210> 15
<211> 328
<212> DNA
<213> bhz28wt
<220>
<223> DNA sequence generated from the known white tiger (Panthera tigris
      tigris) animal number 4 using primers mcb398 and mcb869
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<400> 15

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tgaatctgag gaggettete agtagacaaa gecaeeetga caegattett tgeetteeae
                                                                          60
ticatectic calitateat cicageceta geageagtee acctectatt cetecatgag
                                                                         120
acaggateta acaaccete aggaatagta tetgacteag acaaaateee gttecaccea
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
gtcctattct caccagacct attaggggac cccgataact acatccccgc caaccctcta
                                                                         300
                                                                         328
aacacccctc cccatatcaa gcgcgaat
<210> 16
<211> 328
<212> DNA
<213> qz1L
<220>
<223> DNA sequence generated from the known leopard (Panthera pardus) animal
      number 1 using primers mcb398 and mcb869
<400> 16
tgaatctgag gaggettete agtagacaaa getaeettga caegattett tgeetteeae
                                                                          60
ttcatccttc catttatcat ctcagctcta gcagcagtcc acctcctatt ccttcacgag
                                                                         120
acaggateta acaaccete aggaatagta tecgacteag acaaaattee attecaccea
                                                                         180
tactacacaa tcaaagatat cctgggcctt ctagtactaa tcctagcact catactactc
                                                                         240
gtectattet caccagacet gttaggagae ceegataaet acateeetge caaceeteta
                                                                         300
aatacccctc cccatatcaa gcctgaat
                                                                         328
<210> 17
<211> 328
<212> DNA
<213> qz2L
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<223> DNA sequence generated from the known leopard (Panthera pardus) animal
      number 2 using primers mcb398 and mcb869
<400> 17
tgaatctgag gaggettete agtagacaaa getaeettga caegattett tgeetteeae
                                                                          60
ttcatccttc catttatcat ctcagctcta gcagcagtcc acctcctatt ccttcacgag
                                                                         120
acaggateta acaaccecte aggaatagta tetgacteag acaaaattee attecaccea
                                                                         180
tactacacaa tcaaagacat cetgggcett ctagtactaa tettagcact catactacte
                                                                         240
gtectattet caccagacet gttgggagae ceegataaet acateeeege caaceeteta
                                                                         300
aatacccctc cccatatcaa gcctgaat
                                                                         328
<210> 18
<211> 328
<212> DNA
<213> qz3L
<220>
<223> DNA sequence generated from the known leopard (Panthera pardus) animal
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number 3 using primers mcb398 and mcb869

acaggateta acaacecete aggaatagta tetgacteag acaaaattee attecaceca tactacacaa teaaagacat eetgggeett etagtactaa tettageact catactacte gteetattet caccagacet gttgggagae eeegataact acateeeege caaceeteta	60 120 180 240 300 328
<210> 19	
<211> 328	
<212> DNA	
<213> gz21CL	
<220>	
<223> DNA sequence generated from the known clouded leopard (Neofelis nebulosa) animal number 1 using primers mcb398 and mcb869	
<400> 19	
acaggateca ataaceeete aggaatggta teegatteag acaaaateee gtteeaceeg tactatacaa teaaagatat eetaggeete etagttetaa ttetageget cacactaett gttetattet eeceagaeet actaggagae eetgacaatt acacteeege caaceeteta	60 120 180 240 300 328
<210> 20	
<211> 328	
<212> DNA	
<213> gz22CL	
<220>	
<223> DNA sequence generated from the known clouded leopard (Neofelis nebulosa) animal number 2 using primers mcb398 and mcb869	
<400> 20	
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<210> 21	
<211> 328	
<212> DNA	
<213> darz14SL	

<220>

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<223> DNA sequence generated from the known snow leopard (Panthera unica)
      animal number 1 using primers mcb398 and mcb869
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                                                                          60
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
                                                                         120
acaggateta acaacecete aggaatagta tetgaeteag acaaaateee gtteeaceca
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
gtcctattct caccagacct attaggggac gccgataact acatccccgc caaccctcta
                                                                         300
aacacccctc cccatatcaa gcccgaat
                                                                         328
<210> 22
<211> 328
<212> DNA
<213> darz15SL
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<223> DNA sequence generated from the known snow leopard (Panthera unica)
      animal number 2 using primers mcb398 and mcb869
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                                                                          60
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
                                                                         120
acaggateta acaacceete aggaatagta tetgaeteag acaaaateee gtteeaccea
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
gtectattet caccagacet attaggggae geegataact acateceege caacceteta
                                                                         300
aacacccctc cccatatcaa qcccqaat
                                                                         328
<210> 23
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<212> DNA
<213> darz16SL
<220>
<223> DNA sequence generated from the known snow leopard (Panthera unica)
      animal number 3 using primers mcb398 and mcb869
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                                                                          60
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
                                                                         120
acaggateta acaaccecte aggaatagta tetgaeteag acaaaateee gttecaccea
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
gtcctattct caccagacct attaggggac gccgataact acatccccgc caaccctcta
                                                                         300
aacacccctc cccatatcaa gcccgaat
                                                                         328
<210> 24
<211> 328
<212> DNA
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<213> sbz22AL

<223> DNA sequence generated from the known asiatic lion (Panthera leo persica) animal number 1 using primers mcb398 and mcb869

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ttcatccttc catttatcat	ctcagcccta	gcagcagtcc	acctcctgtt	cctccatgaa	120
acaggateta ataaceete a	aggaatggta	tctgactcag	ataaaattcc	attccatcca	180
tactatacaa tcaaagatat	cctaggcctt	ctagtactaa	tcttaacact	catactactc	240
gtcctattct caccagacct a	attaggagat	cccgacaact	atacccccgc	caatcctcta	300
agcacccctc cccatatcaa	acctgaat	_			328

- <210> 25
- <211> 328
- <212> DNA
- <213> sbz38AL
- <220>
- <223> DNA sequence generated from the known asiatic lion (Panthera leo persica) animal number 2 using primers mcb398 and mcb869
- <400> 25

tgaatctgag gaggcttctc	agtagacaaa	gccaccctga	cacgattctt	tgccttccac	60
ttcatccttc catttatcat	ctcagcccta	gcagcagtcc	acctcctgtt	cctccatgaa	120
acaggatcta ataacccctc	aggaatggta	tctgactcag	ataaaattcc	attccatcca	180
tactatacaa tcaaagatat	cctaggcctt	ctagtactaa	tcttaacact	catactactc	240
gtcctattct caccagacct	attaggagat	cccgacaact	atacccccgc	caatcctcta	300
agcacccctc cccatatcaa	acctgaat				328

- <210> 26
- <211> 328
- <212> DNA
- <213> sbz39AL
- <220>
- <223> DNA sequence generated from the known asiatic lion (Panthera leo persica) animal number 3 using primers mcb398 and mcb869
- <400> 26

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ttcatccttc catttatcat	ctcagcccta	gcagcagtcc	acctcctgtt	cctccatgaa	120
acaggatcta ataacccctc	aggaatggta	tctgactcag	ataaaattcc	attccatcca	180
tactatacaa tcaaagatat	cctaggcctt	ctagtactaa	tcttaacact	catactactc	240
gtcctattct caccagacct	attaggagat	cccgacaact	atacccccgc	caatcctcta	300
agcaccctc cccatatcaa	acctgaat				328

- <210> 27
- <211> 328
- <212> DNA

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<220>
<223> DNA sequence generated from the known human (Homo sapiens sapiens) using
      primers mcb398 and mcb869
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                                                                          60
                                                                         120
ttcatcttgc ccttcattat tgcagcccta gcagcactcc acctcctatt cttgcacgaa
acgggatcaa acaacccct aggaatcacc tcccattccg ataaaatcat cttccaccct
                                                                         180
tactacacaa tcaaagacgc cctcggctta cttctcttcc ttctccctt aatgacatta
                                                                         240
acactattct caccagacct cctaggcgac ccagacaatt ataccctagc caacccctta
                                                                         300
                                                                         328
aacacccctc cccacatcaa gcccgaat
<210> 28
<211> 328
<212> DNA
<213> chimss
<220>
<223> DNA sequence generated from the known chimpanzee (pan troglodytes)
      animal using primers mcb398 and mcb869
<400> 28
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                                                                          60
tttatcttac ccttcattat cacagcccta acaacacttc atctcctatt cttacacgaa
                                                                         120
                                                                         180
acaggatcaa ataaccccct gggaatcacc tcccactccg acaaaattac cttccacccc
tactacacaa tcaaagatat cottggctta ttccttttcc tccttatcct aatgacatta
                                                                         240
acactattct caccagacct cctgggcgat ccagacaact ataccctagc taacccccta
                                                                         300
aacaccccac cccacattaa acccgaat
                                                                         328
<210> 29
<211> 472
<212> DNA
<213> Cervus nippon centralis
<400> 29
taccatgagg acaaatatca ttctgaggag caacagtcat taccaacctc ctctcagcaa
                                                                          60
ttccatatat tggcacaaac ctagtcgaat ggatctgagg gggcttctca gtagataaag
                                                                         120
caaccctaac ccgatttttc gctttccact ttattcttcc atttatcatc gcagcacttg
                                                                         180
ctatagtaca cttactcttc cttcacgaga caggatccaa caacccaaca ggaatcccat
                                                                         240
cggacgcaga caaaatcccc ttccatcctt actacaccat taaagatatc ttaggcatct
                                                                         300
tacttctagt actcttccta atattactag tattattcgc accagacctg cttggagatc
                                                                         360
cagacaacta taccccagca aatccactca acacacccc tcacatcaaa cctgaatgat
                                                                         420
                                                                         472
acttcctatt tqcatacqca atcctacqat caattcccaa caaactaqqa qq
<210> 30
<211> 472
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<213> humsk

<212> DNA

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<213> Cervus nippon yesoensis
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                                                                             60
ttccatatat tggcacaaac ctagtcgaat ggatctgagg gggcttctca gtagataaag caaccctaac ccgattttc gctttccact ttattcttcc atttatcatc gcagcacttg
                                                                            120
                                                                           180
ctatagtaca cttactcttc cttcacgaga caggatccaa caacccaaca ggaatcccat
                                                                           240
cggacgcaqa caaaatcccc ttccatcctt actacaccat taaagatatc ttaggcatct
                                                                           300
tacttctagt actcttccta atattactag tattattcgc accagacctg cttggagatc
                                                                           360
                                                                           420
cagacaacta taccccagca aatccactca acacacccc tcacatcaaa cctgaatgat
                                                                            472
acttcctatt tgcatacgca atcctacgat caattcccaa caaactagga gg
<210> 31
<211> 472
<212> DNA
<213> Cervus nippon keramae
<400> 31
taccatgagg acaaatatca ttctgaggag caacagtcat taccaacctt ctctcagcaa
                                                                             60
ttccatacat tggcacaaac ctagtcgaat ggatctgagg aggcttttca gtagataaag
                                                                            120
caaccctaac ccgatttttc gccttccact ttattcttcc atttatcatc acagcactcg
                                                                            180
                                                                            240
ctatagtaca cttactcttc cttcacgaga caggatccaa caacccaaca ggaatcccat
cggacgcaga caaaatcccc ttccatcctt actataccat taaagatatc ctaggcatct
                                                                            300
tacttctagt actcttcctg atattactag tattattcgc accagacctg cttggagatc
                                                                            360
cagacaacta caccccagca aatccgctca acacacccc tcacatcaaa cctgaatgat
                                                                            420
atttcctatt tgcatacgca atcctacgat caattcccaa caaactagga gg
                                                                            472
<210> 32
<211> 472
<212> DNA
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caacactaac acgettette geetteeatt ttateettee atttateatt acageactaa
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ccgataacta cattccagca aacccactaa gcaccccagc acacattaaa ccagaatgat
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  ccgacaatta caccccagca aacccactta atactccagc acacatcaaa ccagaatgat
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ctgataacta taccccagca aacccactca gcactccagc acacatcaaa ccagaatggt
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ccgataatta tactccagca aacccactca acactccagc acacatcaaa ccaqaqtqqt
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ctgataacta taccccagca aacccactca gcactccagc acacatcaaa ccaqaatqqt
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cagacaacta tateccagea aaceccatga ataccecaga geacattaaa ecagaatggt
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<210> 117
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<212> DNA
<213> Hippopotamus amphibius
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cagacaacta cacccccgca aaccccctta gcacaccacc acacatcaaa ccagaatgat
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<212> DNA
<213> Equus asinus
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<212> DNA
<213> Sus barbatus
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<210> 127
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<213> Lama glama
<400> 127
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472

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PATENT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Sunil Kumar VERMA, et al

Serial No.: 09/821,782

Group No.:

Filed: March 29, 2001

Examiner:

For: UNIVERSAL PRIMERS FOR WILDLIFE IDENTIFICATION

Attorney Docket No.: U 013365-9

Assistant Commissioner for Patents Washington, DC 20231

AMENDMENT

IN THE SPECIFICATION:

In response to the Official Communication of January 2, 2002, please amend the application as follows:

IN THE SPECIFICATION:

Page 326, after last line of Table 12 rewrite the Sequence Listing as follows:

CERTIFICATE OF MAILING (37 CFR 1.8a)

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CLIFFORD J. MASS

(Type/or prig/pame of person mailing paper)

Date: April 2, 2002

(Signature of person mailing paper)

Sequence Listing

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<110> Kumar Verma, Sunil
Singh, Lalji
<120> UNIVERSAL PRIMERS FOR WILDLIFE IDENTIFICATION
<130> U-013365-9
<140> 09/821782
<141> 2001-03-29
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<211> 23
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<213> adil.flesh
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                                                                         180
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                                                                         240
gtcctattct caccagacct gttaggagac cccgataact acatccctgc caaccctcta
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aatacccctc cccatatcaa gcctgaat
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<212> DNA
<213> bhz25t
<220>
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      animal number 1 using primers mcb398 and mcb869
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<213> bhz30t
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      animal number 3 using primers mcb398 and mcb869
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<213> bhz45t
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animal
     number 4 using primers mcb398 and mcb869
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<212> DNA
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<210> 12
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<213> bhz20wt
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tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
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aacacccctc cccatatcaa gcgcgaat
                                                                         328
<210> 13
<211> 328
<212> DNA
<213> bhz22wt
<220>
<223> DNA sequence generated from the known white tiger (Panthera tigris
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tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
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<210> 14
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<212> DNA
<213> bhz23wt
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<223> DNA sequence generated from the known white tiger (Panthera tigris
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<210> 15
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<212> DNA
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<212> DNA
<213> gz1L
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<210> 17
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<212> DNA
<213> gz2L
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<223> DNA sequence generated from the known leopard (Panthera pardus) animal
      number 2 using primers mcb398 and mcb869
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acaggatcta acaacccctc aggaatagta tctgactcag acaaaattcc attccaccca
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tactacacaa tcaaagacat cctgggcctt ctagtactaa tcttagcact catactactc
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gtcctattct caccagacct gttgggagac cccgataact acatccccgc caaccctcta
                                                                         300
aatacccctc cccatatcaa gcctgaat
                                                                         328
<210> 18
<211> 328
<212> DNA
<213> gz3L
<220>
<223> DNA sequence generated from the known leopard (Panthera pardus) animal
```

number 3 using primers mcb398 and mcb869

<220>

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                                                                         120
acaggateta acaacceete aggaatagta tetgaeteag acaaaattee attecaccea
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tactacacaa tcaaagacat cctgggcctt ctagtactaa tcttagcact catactactc
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gtoctattct caccagacct gttgggagac cccgataact acatccccgc caaccctcta
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aatacccctc cccatatcaa gcctgaat
                                                                         328
<210> 19
<211> 328
<212> DNA
<213> qz21CL
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<223> DNA sequence generated from the known clouded leopard (Neofelis
      nebulosa) animal number 1 using primers mcb398 and mcb869
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<212> DNA
<213> gz22CL
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<210> 22
<211> 328
<212> DNA
<213> darz15SL
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<211> 328
<212> DNA
<213> darz16SL
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<210> 24
<211> 328
<212> DNA
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<213> sbz22AL

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<400> 26

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<210> 27

<211> 328

<212> DNA

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tactacacaa tcaaagacgc cctcggctta cttctcttcc ttctctcctt aatgacatta
                                                                         240
acactattct caccagacct cctaggcgac ccagacaatt ataccctagc caacccctta
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aacacccctc cccacatcaa gcccgaat
                                                                         328
<210> 28
<211> 328
<212> DNA
<213> chimss
<220>
<223> DNA sequence generated from the known chimpanzee (pan troglodytes)
      animal using primers mcb398 and mcb869
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ctatagtaca cttactcttc cttcacqaga caggatccaa caacccaaca ggaatcccat
                                                                         240
cggacgcaga caaaatcccc ttccatcctt actacaccat taaagatatc ttaggcatct
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cagacaacta taccccagca aatccactca acacacccc tcacatcaaa cctgaatgat
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<210> 30
<211> 472
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<213> humsk

<212> DNA

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                                                                         120
caaccetaac cegattttte getttecact trattettee attrateate geageacttg
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ctatagtaca cttactcttc cttcacgaga caggatccaa caacccaaca ggaatccat
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cggacgcaga caaaatcccc ttccatcctt actacaccat taaagatatc ttaggcatct
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cagacaacta taccccagca aatccactca acacacccc tcacatcaaa cctgaatgat
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acttectatt tgeataegea atectaegat caatteecaa caaactagga gg
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<210> 31
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<212> DNA
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<213> Grus antigone antigone
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<213> Grus antigone gillae
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<212> DNA
<213> Grus leucogeranus
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<212> DNA
<213> Grus canadensis pratensis
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472

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REMARKS

The above amendatory action is taken to correct the errors in the Sequence Listing noted in the Official Communication of January 2, 2002. In addition to a paper copy of the Sequence Listing, a computer readable copy of the Sequence Listing and the requisite statements are submitted herewith.

Respectfully submitted,

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